Defense Information Systems Agency

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DMS System and Products Update

16 August 2011

The overall classification of this brief is:
UNCLASSIFIED

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Outline

- Current Focus
- Current System and Products Configuration
- DMS Near-Term Roadmap
- DMS Mid-Term Roadmap
- DMS/Organizational Messaging Long-Term Planning
- Questions

Current Focus

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Focus: Sustainment

- **Sustain the enterprise messaging infrastructure**
  - **DMS provides standardized messaging and directory infrastructures to ensure interoperability**
- **Support Command & Control and information sharing**
  - **Sustain messaging servers (e.g., Telos AMHS and Northrop Grumman Decision Agent) and gateways supporting information sharing/interoperability within DoD and with non-DoD and coalition partners**
- **Operate and assure the messaging capabilities**
  - **Ensure capabilities exist to securely support messaging by the warfighter**

- **Focus at this point is <u>not</u> new capabilities**
- **Focus at this point <u>is</u> on sustainment of current levels of interoperability and security as long as required**

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Current System and Products Configuration

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Currently Supported Operating Systems/Application Products

- **Operating systems**
  - **Windows 2003 (Server)**
  - **Windows Vista (Workstation for ADUA only)**
  - **HP-UX 11i V2 (11.23) (Server for DCL DSA and MTA products)**
  - **Solaris 10 (Server for DCL DSA and MTA products)**
- **Core Domain FORTEZZA messaging products**
  - **Telos AMHS/CommPower Enterprise XML Portal (CP-EXP)**
  - **Northrop Grumman Decision Agent (DA) (See Note)**

Refer to Product Availability Table on DADS for currently supported version of each product.

Note: End of life as core product 1 May 2012.

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Currently Supported Operating Systems/Application Products (cont'd)

- **Core specialty messaging products**
  - CommPower CP-EXP (also an integral part of Telos AMHS)
  - CommPower Mail List Agent (MLA)
  - CommPower Multi-Function Interpreter (MFI)
  - CommPower ACP145 Gateway
- **Core infrastructure products**
  - DCL Message Transfer Agent (MTA)
  - DCL Directory System Agent (DSA)
  - DCL Administrative Directory User Agent (ADUA)
- **Core security products**
  - BAE High Assurance Guard
  - General Dynamics Certification Authority Workstation (CAW)

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Significant Changes in Product Support Status

- **Recent Changes:**
  - **Maintenance Release 3.1.5 – phased implementation began in CY2010**
    - **Final deliverable (CP-EXP on Win 2008 Server) delayed until mid CY2011**
- **Upcoming Changes:**
  - **Maintenance Release 3.1.6 – phased implementation CY2011**
  - **30 Aug 2011: End of support for Symantec SAV**
    - **Only a single anti-virus (McAfee) will be supported within DMS**
  - **1 May 2012: End of life for Decision Agent**
    - **Continued use in DMS requires submission as non-core (PRT) product**
  - **1 May 2012: End of life for Tripwire (tentative)**
  - **2QCY12 (tentative): End of life for AMHS/CP-EXP on Windows 2003 Server**
    - **Based upon estimated availability of AMHS on Windows 2008 Server by 4QCY11 and 6 months migration to Windows 2008 Server**
  - **3QCY12 (tentative): End of life for ADUA on Windows Vista**
    - **Based upon estimated availability of ADUA on Windows 7 by 3QCY11 and one year migration to Windows 7**

DMS Maintenance Release 3.1.5

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- Current Maintenance Release 3.1.5 (MR3.1.5)
- Phased implementation late 2010 - mid 2011
- Major focus areas:
  - Commercial refresh
  - Sustainability improvements
  - Security improvements
  - Efficiency/management improvements
- Significant capabilities
  - Dual certificate operation (”smooth rekey”) reduces NDNs following CP-EXP rekey
  - Reduced certificates support for (mc) organizations
  - Improved security for admin of reduced certificate organizations
  - CP-EXP on Windows 2008 Server
    - To be used in conjunction with AMHS on Windows 2008 Server estimated to be available 4QCY2011

Details of each of the capabilities included in MR 3.1.5 Functional Content Document (FCD) on DADS.

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DMS Near-Term Roadmap

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Near-term (2011/2012) System/Product Updates

- **Maintenance Release 3.1.6 – phased delivery thru CY11/phased implementation CY11-CY12**
- **AMHS 3.1.4 – available for fielding estimated 4QCY11**
  - **Support for Really Simple Syndication (RSS) feed**
  - **Upgrade to SQL2005**
  - **Search Engine Upgrade**
  - **Message Tagging (categorical tags to support later retrieval)**
  - **Delivery Manager (improve efficiency of SMTP dissemination)**
  - **Windows 2008 support (later delivery estimated available 4QCY11)**
  - **Non-messaging collaboration capabilities planned later by Telos**
    - **Email**
    - **IM/Chat**
    - **Not currently planned to be tested/certified/supported as part of DMS core product**
- **Decision Agent (DA) 3.3.1 FEN 7 – available for fielding 4QCY11**
  - **Support for SQL 2005**
  - **Support for IE8**

DMS Maintenance Release 3.1.6

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- **Phased implementation late 2011 - mid 2012**
- **Major focus areas:**
  - **Commercial refresh**
  - **Sustainability improvements**
  - **Security improvements**
  - **Efficiency/management improvements**
- **Significant capabilities**
  - **ADUA on Windows 7**
  - **Shorter cache retention capability (potential to reduce NDNs from CP-EXP, MFI, MLA**
  - **MLA removal of non-existent AL members (potential to reduce NDNs)**
  - **Fortezza management improvement for CP-EXP**
  - **Configuration data verification improvements for CP-EXP, MFI, MLA**
  - **MFI and MLA administration security improvements**
  - **MFI support for Secure LDAP**
  - **MFI modifications for improved Allied and coalition interoperability**
  - **MTA and DSA management improvements (including w/in ADUA)**

Details of each of these capabilities included in MR 3.1.6 Functional Content Document (FCD) on DADS.

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DMS Mid-Term Roadmap

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Mid-term (2012/2013) System/ Product Updates

- **Initial planning discussions have taken place within the DMS Configuration Control Board relative to a possible Maintenance Release 3.1.7 (MR 3.1.7)**
  - **Phased delivery would take place through CY2012**
- **Content would focus in these areas**
  - **Commercial refresh/sustainability**
  - **Security improvements**
  - **Efficiency/management improvements**
- **At this point, no firm plans for MR 3.1.7 due to funding limitations**

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DMS/Organizational Messaging Long-Term Planning

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Background

- **May 2005: DMS placed in sustainment by ASD (NII) with direction to support through FY12 "during the development of and transition to the Department's next generation messaging capability"**
- **Nov 2008: Joint Staff stated intent to close DMS in 2009 without a replacement capability**
  - **Services, Agencies, and COCOMs opposed**
- **Dec 2009: DoD-CIO tasked DISA to provide an approach to support most critical data/services requirements currently met by DMS**
- **Jan 2010: DoD-CIO directed preservation of DMS funding to support transition to successor capabilities**
  - **Specific "successor capabilities" not yet defined/agreed upon**
- **Mar 2010: DMS Global Service Manager (GSM) prepared and coordinated response to DoD-CIO tasking, signed by the DISA Director**

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Factors in DISA Analysis/ Recommendations to DoD-CIO

- **DMS is being used by Service/agencies/COCOMs (S/A/CC) to support information sharing internally and with external partners (including non-DoD and Allies)**
  - **S/A/CC are projecting reduced numbers of DMS organizations and sites, but not zero by 2012**
  - **Monthly usage continues at approximately 10M messages (originated + received)**
- **No single alternative has been identified which supports all mission requirements met by DMS**
  - **Some existing alternatives support a subset of the key attributes identified by Joint Staff**
  - **Some alternatives require S/A/CC to make significant changes to their business practices**
    - **Time and resource impacts**
  - **Continued interoperability with non-DoD and Allied military messaging systems requires significant work under any alternative**

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Specific DISA Recommendations to DoD-CIO

- **Further regionalization with enterprise AMHS sites**
  - **Five joint enterprise AMHS locations (recommended target)**
  - **Use existing Service/agency/COCOM (S/A/CC) AMHSs**
- **Transition to single domain Fortezza product (AMHS)**
- **Further downsize DMS backbone**
  - **Consistent with regionalization and reductions by S/A/CCs**
- **Eliminate presence of DMS on NIPRNET**
  - **Based upon reductions proposed by S/A/CCs**
  - **Alternative: Single NIPRNET AMHS similar to TS/C**
- **Retain legacy and ACP145 interoperability with Allies**
- **Perform tech refresh of National Gateway Center Ft Detrick**
  - **Essential to ensuring continued Allied legacy interoperability**

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Activities Since DISA Recommendations to DoD-CIO

- **Services/agencies/COCOMs have continued regionalization**
  - **Limited joint AMHSs implemented**
  - **Have not achieved the recommended reduction level**
- **Transition to single domain Fortezza product (Telos AMHS) scheduled for May 2012**
- **DISA proceeded with downsizing DMS backbone:**
  - **From eight to four regional nodes on SIPRNET/NIPRNET**
  - **From two to none on TS/C**
- **Joint Staff J6 coordinated with Services/agencies/COCOMs regarding potential elimination of DMS on NIPRNET**
  - **No consensus reached**
  - **No action taken**
- **DMS will continue to be sustained as long as requirements continue**
  - **Includes IP-based, legacy, and gateway capabilities**
  - **Confirmed in Jun 2011 memorandum from Director DISA to Joint Staff**

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What Happens Longer-Term?

- **Potential alternatives exist but have not been fully evaluated within the DoD**
  - **Alternative information sharing mechanisms such as wikis, blogs, web portals**
    - **Requires major changes in operational concepts and business processes**
    - **May not fully meet the needs (e.g., Allied interoperability) met by push-based direct-address (messaging) technologies**
  - **Alternative push-based/messaging solutions such as:**
    - **Pentagon Official Information Exchange (OIX) pilot**
    - **Intelligence Community Information Transport Service (ITS) initiative**
      - **Interconnects multiple types of messaging servers such as Telos AMHS**
      - **Includes legacy gateway and cross-domain solutions**
      - **Would functionally replace the use of X.400/X.500 and Fortezza**
    - **Various "command email" implementations such as Navy's**
- **Next Steps – To be determined**

Questions?

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Backup Information

- How to Influence the DMS Products Roadmap
- Phases of DMS Product Support Lifecycle
- Additional Information Sources

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How to Influence the DMS Products Roadmap

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Where Are Decisions Made Regarding Release Content and Product Support?

- **Product specific technical working groups (TWGs)**
  - **Telos AMHS, Northrop Grumman DA**
  - **Recommended capabilities changes and priorities feed to CCB**
- **Configuration Control Board (CCB)**
  - **Chair: Bill Arey/DISA Org Messaging Division (NS21)**
  - **Release content, new capabilities, product lifecycle**
- **Operations Working Group (OPWG)**
  - **Chair: Brian Ives/DISA Org Messaging Division (NS212)**
  - **Operational issues, product lifecycle**
- **Configuration Management Board (CMB)/DMS Operations Group (DMSOG)**
  - **Chair: Juan Santiago/DISA Org Messaging Division (NS21)**
  - **Final decision authority**

Groups have representation from Services, agencies, COCOMs, Joint Staff, etc.

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Where Can You Get Additional Information?

- Your CCB, OPWG and DMSOG Reps
- DMS Asset Distribution System (DADS)
  - Briefings/Minutes/Material
    - CCB
    - OPWG
    - TWGs
  - Product Availability Table
  - FEN Applicability Matrix
  - Functional Content Documents

Phases of DMS Product Support Lifecycle

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	Security Fixes (IAVAs) and Anti-Virus	Functional Fixes?	Operationally Essential Functional Improvements?	Technical/ Helpdesk Support?	Authorized by ATO?
Full Support Phase	YES	YES	May Be Implemented. Some improvements may result in new product/version.	YES	YES
Limited Support Phase	Critical Security Fixes and Anti-Virus	Very Limited Case-by-Case			Should be in process of being replaced.
End-of-Support Phase	NO	NO	NO	Limited	YES May be cancelled immediately due to new security
End-of-Life Phase	NO	NO	NO	NO	NO

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Additional Information Sources on DADS

- Product/Operating System Migration and Associated Hardware Platform Impacts
- Product Availability Table: Commercial Products End-of-Life (EoL)
- Product Availability Table: DMS Products End-of-Life (EoL)